- subjecting said preform to carbonizing and heat processing conditions, up to 2300°C, sufficient to carbonize said preform;
- sintering said hardened and carbonized preform by infiltrating it with liquid metal silicon between the temperatures of 1400°C and 1800°C; and
- 4) optionally forming an anti-oxidation layer on the surface of said hardened and carbonized preform by introducing gaseous SiO₂ to react with any remaining unreacted carbon and silicon, while heat-processing said hardened and carbonized preform within the temperature range of 2000°C – 2700°C.
- (Amended) The method according to claim 1, wherein the carbon/phenolic preform is prepared by a method selected from the group consisting of:

press molding, tape wrapping with internal and external compression, sewing

2-dimensional fabrics with thermal resistant fiber to make a 3-dimensional preform, and the
involute method.

- (Amended) The method according to either claim 1 or claim 4, wherein a
 discharge passage of dissolute gas is made by making holes on the hardened preform in step
 2).
- 6. (Amended) The method according to claim 5, wherein the discharge passage is made by making holes of 0.5mm~1.5mm diameter with 5mm~20mm interval if the hardened preform is rectangular box shape.
- 8. (Amended) The method according to either claim 1 or claim 4, wherein graphite and coke powder are put into a graphite box with a hole and wrap up the entire